Thursday, 3/8/2007 3:41:01 PM Kim Johnston User: **Process Sheet Drawing Name** : GAS SPRING - UNDER REVIEW : CU-DAR001 Dart Helicopters Services Customer 📑 Job Number : 31149 **Estimate Number** : 12702 : D35527 Part Number JIA P.O. Number S.O. No. : 41/ D3552 UNDER REVIEW : 3/8/2007 **Drawing Number** This Issue : N/A Prsht Rev. : NC Project Number NA : PURCHASED PARTS **Drawing Revision** First Issue : 30638 Material Previous Run : 3/30/2007 **Due Date** Written By Checked & Approved By New Issue 06-11-13 EC : Est Rev:A Comment **Additional Product** Job Number: **Machine Or Operation:** Description: Seq. #: 5... 1.0 **PURCHASING** Comment: Issue P/O: 3274 C/07/03/12 Purchase Part Number: B8-220-530-70N Supplier: LS Technologies Certificate of conformity is required B822053070N CARBON STEEL GAS SPRING 2.0 Comment: Qty.: 1.0000 Each(s)/Unit Total: 20.0000 Each(s) CARBON STEEL GAS SPRING 3.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Receive & Inspect For Transit Damage Ensure certificate of conformity is attached 4.0 QC6 DIMENS Comment: DIMENSIONAL CHECK Test for correct pressure PACKAGING ' PACKAGING RESOURCE #1 5.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location:

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES				•	
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #: Pault Category: NC	R: Yes	(No) DQA		<u> </u>	7/04/04

QA: N/C Closed: ____ Date: ___

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
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NOTE: Date & initial all entries

User:

Thursday, 3/8/2007 3:41:01 PM

🧾 Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: GAS SPRING - UNDER REVIEW

Job Number: 31149

Part Number: D35527

Job Number:



Seq. #:

Machine Or Operation:

Description:

6.0

QC21

FINAL INSPECTION/W/O RELEASE







Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



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Dart Aerospace Ltd

W/O:				WORK O	RDER CHANGES					
DATE	STEP		PROC	CEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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QA: N/C Closed: ____ Date: ___

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE		Description of NC		Corrective Action Section B	Verification	A				
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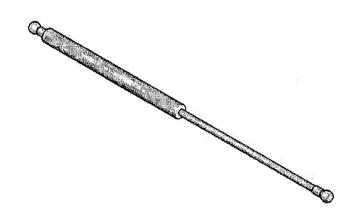


	DESIGN DRAWN BY		DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
	CHECK	(ED	APPROVED	DRAWING NO.	REV. B		
	6	H.		D3552	SHEET 1 OF 1		
	06.09.15			TITLE	SCALE		
			9.15	GAS SPRING	1:1		
	REV	DATE		DESCRIPTION			
	Α	06.09.15		NEW ISSUE			
	В		06.10.24	ADD D-3552-7/-9; UPDATE DESC. [03552-1/-3/-5		

SPECIFICATION CONTROL DRAWING



DART P/N	STROKE (mm)	EXTENDED LENGTH (mm)	FORCE (N)	END FITTING	MATERIAL	LS TECHNOLOGIES P/N
D3552-1	220	530	70	10 mm SS BALL SOCKET	CARBON STEEL	C8-220-530-70N
D3552-3	200	490	200	10 mm SS BALL SOCKET	CARBON STEEL	C8-200-490-200N
D3552-5	175	430	150	10 mm SS BALL SOCKET	CARBON STEEL	C8-175-430-150N
D3552-7	220	530	70	10 mm NYLON BALL SOCKET	CARBON STEEL	B8-220-530-70N
D3552-9	200	490	200	10 mm NYLON BALL SOCKET	CARBON STEEL	B8-200-490-200N



EXTENDE	D LENGTH -

SHOP COPY

D3552-X GAS SPRING RETURN TO

NGINEERING

UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

PELEASED

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P.O. Box 25032, Saskatoon, Saskatchewan, Canada S7K 8B7

Ph: (306) 683-5000 Fax: (306) 683-6403

E-mail: lstech@lstechnologies.ca www.liftsupporttechnologies.com

Certificate of Compliance

This is to certify that the merchandise listed below meets specifications as required by your order.

B8-220-530-70N CARBON STEEL GAS SPRING

This product is ROHS compliant
We certify no mercury was used in the manufacture of this order.

Order # PO00003276

LS Technologies Inv # 3569

Ologies Carrorate & Seal Seal

L S Technologies Inc Canada

Nolan Fehr

LS Technologies Canada Inc.

Box 25032 Saskatoon, SK S7K 8B7

Packing Slip

Date	Packing Slip#
3/16/2007	3569

Name	1 4	dd	re	SS

Dart Aerospace Ltd 1270 Aberdeen St. Hawkesbury, ON K6A 1K7 Canada Ship To

Dart Aerospace Ltd 1270 Aberdeen St. Hawkesbury, ON K6A 1K7 Canada

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P.O. No.	Rep	Ship Date	Ship Via
00003276	Nolan	3/16/2007	Purolator

Qty	Description	
2	B8-220-530-70N Carbon Steel Gas Spring	
	Shipping and Handling PUROLATOR / DHL - Tracking #320331424939	
	Total GST Business Number: 875007718	
Α ,		
<i>₹</i>		
194		
) isi		
Please remit to above	address. Thank you for the business.	

Jason Murdoch

From: Marc Bellavance [mbellavance@dartaero.com]

Sent: Tuesday, March 27, 2007 10:03 AM

To: 'Jason Murdoch'

Subject: RE: D3552-7

I don't believe that adding the Newton to Pound-Force conversion is a good enough reason for us to revise the drawing, as a simple calculation can do the job.

To convert your metric 70N to imperial pound-force, all you need to do is divide the amount of Newton by 4.488:

For example, 70N 4 4.488 = 15.59 lb.

Anyways, the drawing will soon be revised by me to add D3552-11 to the table.

So I'm taking your recommendation in consideration.

Marc Bellavance Mechanical Designer

DART aerospace Ltd.

Tel: 613-632-5200 Ext. 240

Fax: 613-632-9311

E-mail: mbellavance@dartaero.com

Web: www.dartaero.com

From: Jason Murdoch [mailto:jmurdoch@dartaero.com]

Sent: Tuesday, March 27, 2007 9:50 AM

To: 'Marc Bellavance' **Subject:** RE: D3552-7

yes

jmurdoch@dartaero.com Q.C. COORDINATOR

From: Marc Bellavance [mailto:mbellavance@dartaero.com]

Sent: Tuesday, March 27, 2007 9:49 AM

To: 'Jason Murdoch' Subject: RE: D3552-7

Jason,

Are you measuring the force of each gas spring when you perform your inspection?

Marc Bellavance Mechanical Designer

DART aerospace Ltd.

Tel: 613-632-5200 Ext. 240

Fax: 613-632-9311

E-mail: mbellavance@dartaero.com

Web: www.dartaero.com

From: Jason Murdoch [mailto:jmurdoch@dartaero.com]

Sent: Tuesday, March 27, 2007 9:17 AM

To: 'Marc Bellavance' Subject: D3552-7

How much is 70(N) force in pounds? I think this should be added to the dwg for inspection.

jmurdoch@dartaero.com Q.C. COORDINATOR